

10-Ama-49-PM 6.1
201.010
10 00020041 (10-OT140K)
August 2011

Project Study Report-Project Report
To
Request Programming in the 2010 SHOPP
And
Provide Project Approval

On Route: 49
At: Martell/Jackson Gate Road
About: 2 Miles North of Jackson

I have reviewed the right of way information contained in this Project Study Report-Project Report and the R/W Data Sheet attached hereto, and find the data to be complete, current and accurate.


SPIROS KARIMBAS
CHIEF, CENTRAL REGION RIGHT OF WAY

APPROVAL RECOMMENDED:

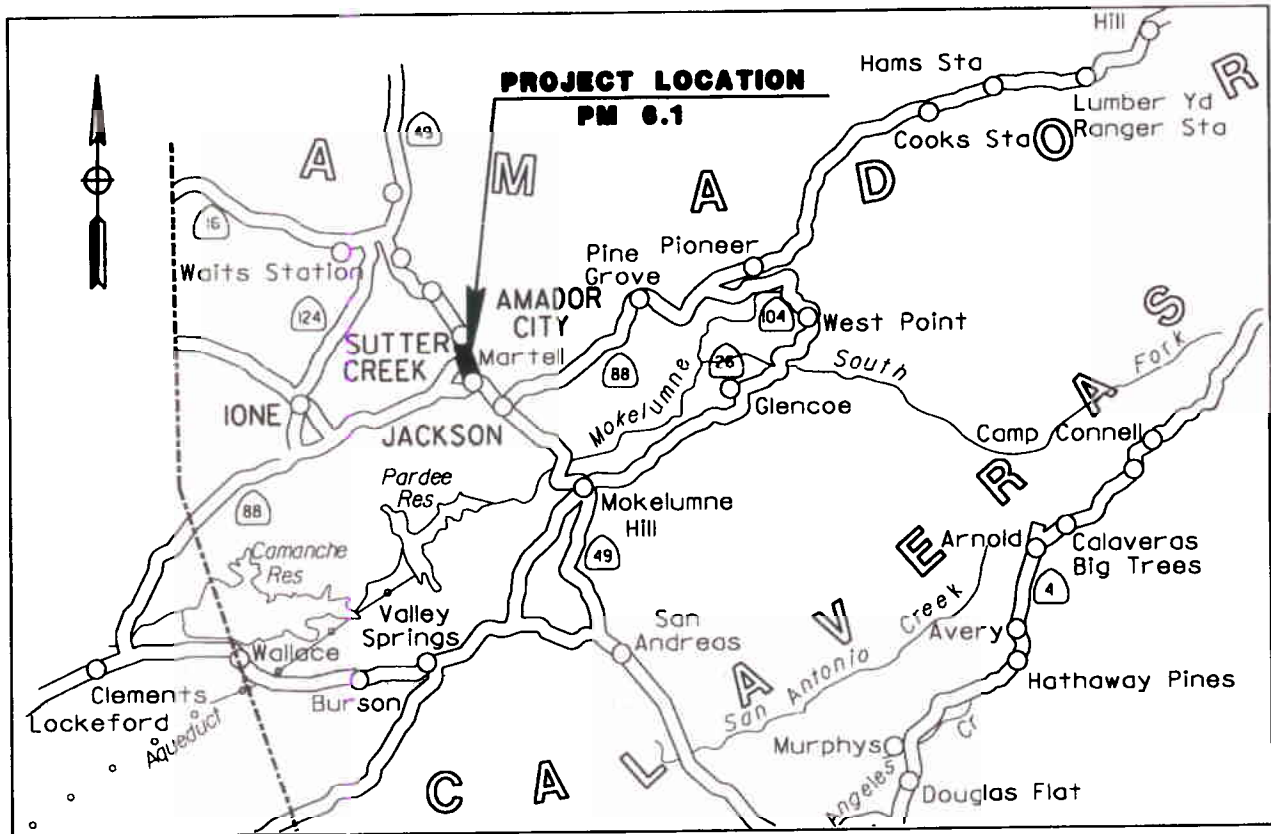

AJAIB BRAR
PROJECT MANAGER

APPROVED:


CARRIE L. BOWEN
DISTRICT 10 DIRECTOR

9-20-11
DATE

10-Ama-49-PM 6.1
201.010
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August 2011



On Route 49

at Martell/Jackson Gate Road

About 2 Miles North of Jackson

10-Ama-49-PM 6.1
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August 2011

This Project Study Report-Project Report has been prepared under the direction of the following registered engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.


WUTHY SENG
REGISTERED CIVIL ENGINEER

8/18/11
DATE



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1. INTRODUCTION

The project is located in Amador County on Route 49 at Martell/Jackson Gate Road approximately two miles north of Jackson. The project proposes to install a traffic signal, ADA curb ramps, and crosswalks. The total cost was estimated at \$565,000 (See Attachment F). The additional right of way is not required; however, utility relocations will be required. The project is proposed to be funded from the *Safety Improvements Program (20.10.201.010)* in the 2010 SHOPP for the delivery in 2012/13. This project has been assigned Project Development Processing Category 5 because the project has minimal economic, social or environmental significance.

See the Cost Estimate for specific work items included in this project.

| | |
|---|--|
| Project Limits: | 10-Ama-49-PM 6.1 |
| Construction Capital Costs: | \$450,065 |
| Right of Way Costs: | \$109,788 |
| Funding Source: | 2010 SHOPP |
| Number of Alternatives: | Alt 1 (Build) Alt 2 (No-Build) |
| Recommended for Programming and Approved Alternative | Alt 1 (Build) |
| Type of Facility: | 4-Lane Conventional Highway |
| Number of Structures: | None |
| Anticipated Environmental Determination/Document: | Categorical Exemption/ Programmatic Categorical Exclusion |
| Legal Description: | In Amador County on Route 49 at Martell/Jackson Gate Road about 2 Miles North of Jackson |

2. RECOMMENDATION/PROPOSAL

It is recommended that this Project Study Report – Project Report be approved for inclusion in the 2010 SHOPP and that the project proceed to the design phase.

3. BACKGROUND

The safety investigation that initiated this project was for the Fourth Quarter of 2005, Table C location. The investigation identified a pattern of broadside collisions at this intersection. Advanced flashing beacons and enlarged stop signs were installed on 3/26/2003 as an interim measure. As a part of the safety investigation, the signal warrant study found that all warrants were met except

for warrants 4 and 5, which are not applicable to the location. Within the project limits Route 49 is designated a conventional highway. It is a 4-lane highway with 12 ft lanes and 8 ft shoulders.

4. PURPOSE AND NEED STATEMENT

Need:

The need of this project is to address the broadside collisions pattern found in the safety investigation.

Purpose:

The purpose of this project is to install traffic signals with intersection lighting to try to reduce the potential severity and frequency of broadside collisions at the intersection.

5. DEFICIENCIES

District 10's Traffic Safety Unit did a safety investigation at the intersection of State Route (SR) 49 and Jackson Gate Road and found that this intersection is experiencing a higher than average collision rate. The accidents are primarily broadsides indicating a need for an increase in right of way control.

The 2011 ADT (Average Daily Traffic) is 20,400 with a DHV (Design Hourly Volume) of 2,100 and a directional split of 55%. The projected 2032 ADT is 33,700 with a DHV of 3,400. The truck volume is 6%. Forecasting methodology for this project used multiple sources of data and information, one of them being a Traffic Demand Model (TDM).

The accident history for this segment of highway in the three-year period beginning April 1, 2007 is as follows:

Accident Listing for period 4/01/07 to 03/31/10 (Source: Caltrans TASAS Table B Listing)

| Type | Actual | Average |
|--------------|--------|---------|
| Fatal | 0.00 | 0.006 |
| Fatal+Injury | 0.48 | 0.23 |
| Total | 1.18 | 0.70 |

The actual Fatal plus Injury (F+I) and Total accident rates (Acc/MV) are above the average rates. Twenty seven accidents were recorded during the three-year study period. Twenty one of the twenty seven accidents were broadside type of collisions. Failure to yield at the intersection was one of the factors for the broadside accidents. The remaining six accidents were sideswipe and rear end type of collisions.

6. CORRIDOR AND SYSTEM COORDINATION

Through the project area, Route 49 is on the Interregional Road System and is functionally classified as a minor arterial. The route does have a 30 foot Kingpin-to-rear-axle advisory for trucks at Jackson Gate Road.

The concept Level of Service (LOS) for Route 49 is "D." The Concept Facility and Ultimate Transportation Corridor (UTC) through the project limits is a 4-lane conventional highway.

There are two planned projects, 10-46130k and 10-05720k, within the project limits.

7. ALTERNATIVES

There are two alternatives under consideration.

Alternative 1:

This project is to install a traffic signal with intersection lighting to be coordinated with other signals in the area. Also, the project proposes to install curb ramps for pedestrian accessibility, at the southwest, northeast, and southeast corners of the intersection. At this intersection SR 49 is a four-lane facility with a designated single left-turn lane. The two outside through lanes on SR 49 will maintain an existing width of 12 feet and the two inside through lanes width will be reduced from the existing 12 feet to 11 feet to provide area in the southwest corner for the installation of curb ramp and to meet the corner sight distance requirement. The 11 feet lanes will be restriped on SR 49 approximately 400' to the approach and departure of the intersection. The shoulder widths will be maintained at 8 feet. The project cost is estimated at \$565,000; \$450,000 for construction and \$115,000 (escalated value) for right of way (See Attachment F).

A fact sheet of exceptions to the Advisory Design standards is being prepared for the proposed single handicapped ramps at the southwest, northeast, and southeast corners of the intersection and for the proposed transit buses.

A fact sheet of an exception to the Mandatory Design standard is being prepared for the proposed 11 feet lane width.

Alternative 2:

This is the "No Build" alternative. This alternative will leave the existing four-way stop in place.

8. CONSIDERATIONS REQUIRING DISCUSSION

A. Hazardous Waste

No known hazardous waste sites were identified in the initial site assessment.

B. Value Analysis

A value analysis is not required.

C. Resource Conservation

A small amount of AC will be generated; however, it is not cost effective to recycle the AC with this small amount.

D. Right Of Way Issues

All construction will be within the existing right of way. No additional right of way is required. Overhead utilities will be relocated to accommodate the placement of signal poles and mast arms. The presence and location of such utilities is to be verified during the PS&E phase of the project. A Right of Way Data Sheet was prepared on 7/28/2011 (See Attachment C).

E. Environmental Issues

There are no significant or substantial environmental concerns.

F. Air Quality Conformity

Air quality conformity is not required.

G. Title VI Considerations

The project proposes to install curb ramps and provide crosswalks at the intersection.

9. OTHER CONSIDERATIONS AS APPROPRIATE**AGREEMENTS**

Maintenance Agreements between Caltrans and Amador County are required for curb ramps and signal lights.

TRANSPORTATION MANAGEMENT PLAN

A transportation management plan (TMP) has been developed. Lane closures will be restricted to time windows at low traffic volume. The TMP includes Construction Zone Enhanced Enforcement Program (COZEEP) and portable changeable message signs (See Attachment G).

STORM WATER

A Storm Water Data Report was approved on 7/18/2011 (See Attachment E). The project will disturb approximately 0.06 acre of soil and the impact to water quality will be insignificant.

10. COMMUNITY INVOLVEMENT

At the beginning of the development of the PID process, meetings took place between Caltrans and Amador County to discuss an alternative to incorporate the County long-term plan as part of the safety project. Due to substantial right of way and environmental impacts, the PDT teams concluded it was no longer a viable alternative.

11. ENVIRONMENTAL DETERMINATION/DOCUMENT

The project is Categorically Exempt under Class 1 of the State CEQA guidelines. The project is Categorically Excluded under NEPA. (See Attachment D).

12. FUNDING

12A. CAPITAL COST

Capital Cost Estimate for 2010 SHOPP

It is proposed to program this project in the 2010 SHOPP in the 2012/13 FY. Funding will be from the Safety Improvements Program (20.10.201.010). The project total cost is estimated at \$565,000; \$450,000 for construction and \$115,000 (escalated value) for right of way. The escalated construction capital cost for FY 2012/13 is \$464,000.

12B. CAPITAL SUPPORT ESTIMATE

Capital Support Estimate

| Project Cost Component | Fiscal Year | | | | Total |
|--------------------------|-------------|------------|------------|-----------|------------|
| | 11/12 | 12/13 | 13/14 | 14/15 | |
| PA&ED | | | | | |
| PS&E | 343 | 85 | | | 428 |
| R/W Support | 9 | 14 | 14 | 11 | 48 |
| R/W Prop Mgmt & XS Lands | | | | | |
| Construction Support | | 105 | 128 | 21 | 254 |
| Total | 352 | 204 | 142 | 32 | 730 |

- Note: (1) All costs are in \$1000's. Construction capital costs are escalated at 3% per year and support costs are escalated at 3.1% per year.
(2) Support categories are the same as those identified by SB 45.

13. SCHEDULE

| HQ Milestones | Delivery Date |
|----------------------------|---------------|
| PID/PA & ED | 09/16/2011 |
| Project PS&E | 06/15/2012 |
| Right of Way Certification | 04/13/2012 |
| Ready to List | 09/14/2012 |
| Headquarters Advertise | 11/19/2012 |
| Award Contract | 01/02/2013 |
| Approve Contract | 01/16/2013 |
| Contract Acceptance | 12/16/2013 |
| End Project | 03/16/2015 |

14. FHWA COORDINATION

Per the 2009 *Federal Transportation Act*, this project is eligible for federal-aid funding and is considered to be STATE-AUTHORIZED under current FHWA-Caltrans Stewardship Agreements.

15. PROJECT PERSONNEL

| Name | Caltrans Function | Telephone Number |
|--------------|-----------------------|------------------|
| Ajaib Brar | Project Manager | (209) 948-7990 |
| Jose Huerta | Design Manager | (209) 948-7902 |
| Wuthy Seng | Project Engineer | (209) 948-7905 |
| Scott Smith | Environmental Manager | (559) 243-8223 |
| Anthony Dorn | Right of Way Manager | (209) 948-3858 |

16. PROJECT REVIEWS

| | | |
|--|---|-----------------------|
| Field Review | <u>Wuthy Seng, Jaspal Singh, Saravuth Phin, Ajaib Brar, Al Araica, Nil Sannigrahi, Chris Bassar</u> | Date <u>7/22/2010</u> |
| District Maintenance | <u>Ali Juma</u> | Date <u>8/3/2011</u> |
| District Safety Review | <u>Mark Orr</u> | Date <u>8/11/2011</u> |
| HQ Design Coordinator/Reviewer | <u>Antonette Clark</u> | Date <u>8/11/2011</u> |
| Project Manager District Safety Review | <u></u> | Date <u></u> |
| District SHOPP Program Advisor | <u>Duper Tong</u> | Date <u>8/11/2011</u> |
| HQ SHOPP Program Advisor | <u></u> | Date <u></u> |

17. ATTACHMENTS:

- A. Title Sheet
- B. Layout
- C. Right of Way Data Sheet
- D. Categorical Exemption/Categorical Exclusion
- E. SWDR Signature Page
- F. Cost Estimate
- G. TMP

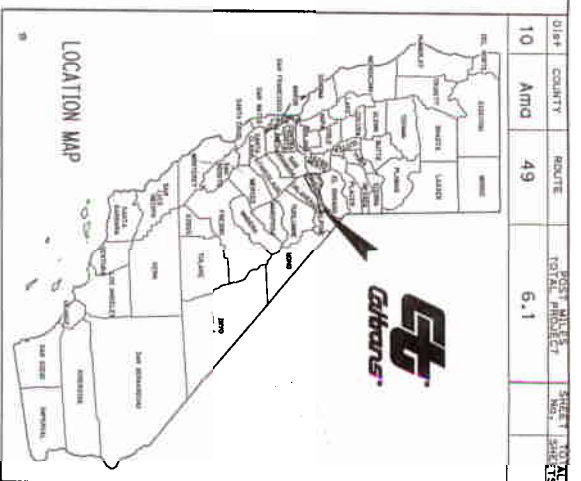
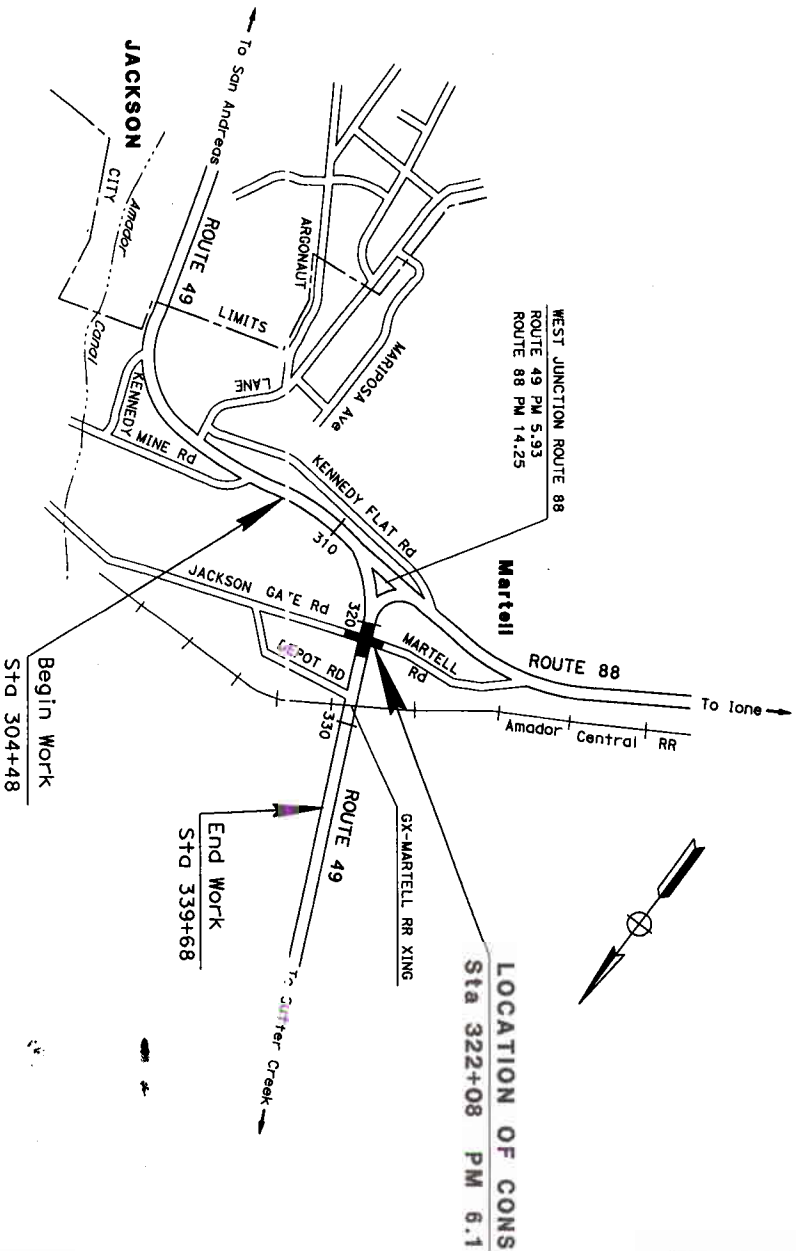
cc:

HQ Division of Design
Program Advisor – Duper Tong
HQ Division of Engineering Services (3)
HQ Transportation Programming – Rick Guevel
HQ Environmental – Bob Pavlik
HQ Maintenance – Roger Hunter
Project Manager – Ajnib Brar
Design Manager (2) – Jose Huerta
CR Construction – Resident Engineer
D10 Maintenance – Alvin Mangindin
D10 Traffic Management – Nabeel Burhan
D10 Traffic Engineering – Mark Orr
CR Traffic Design – Mohammed Qatami
D10 Traffic Operations – Vu H. Nguyen
CR Materials – Dave Dhillon
CR Environmental – Scott Smith
CR Right of Way – Michael Rodrigues
D10 Transportation Planning – Ken Baxter
CR PPM – Andrea Nason (Electronic Only)
CR Surveys – Hanna Kassis (Electronic Only)
HQ DES/OPPM – Azita Fatemi
D10 Records Center – Beverly Connolly

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN AMADOR COUNTY
AT MARTELL
AT MARTELL/JACKSON GATE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



ATTACHMENT A

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS
AGENTS SHALL NOT BE RESPONSIBLE FOR
ANY ERRORS OR OMISSIONS IN THESE
PLANS OR FOR THE ACCURACY OF
COMPUTATIONS OR STANDARDS CITED IN THIS PLAN SHEET.



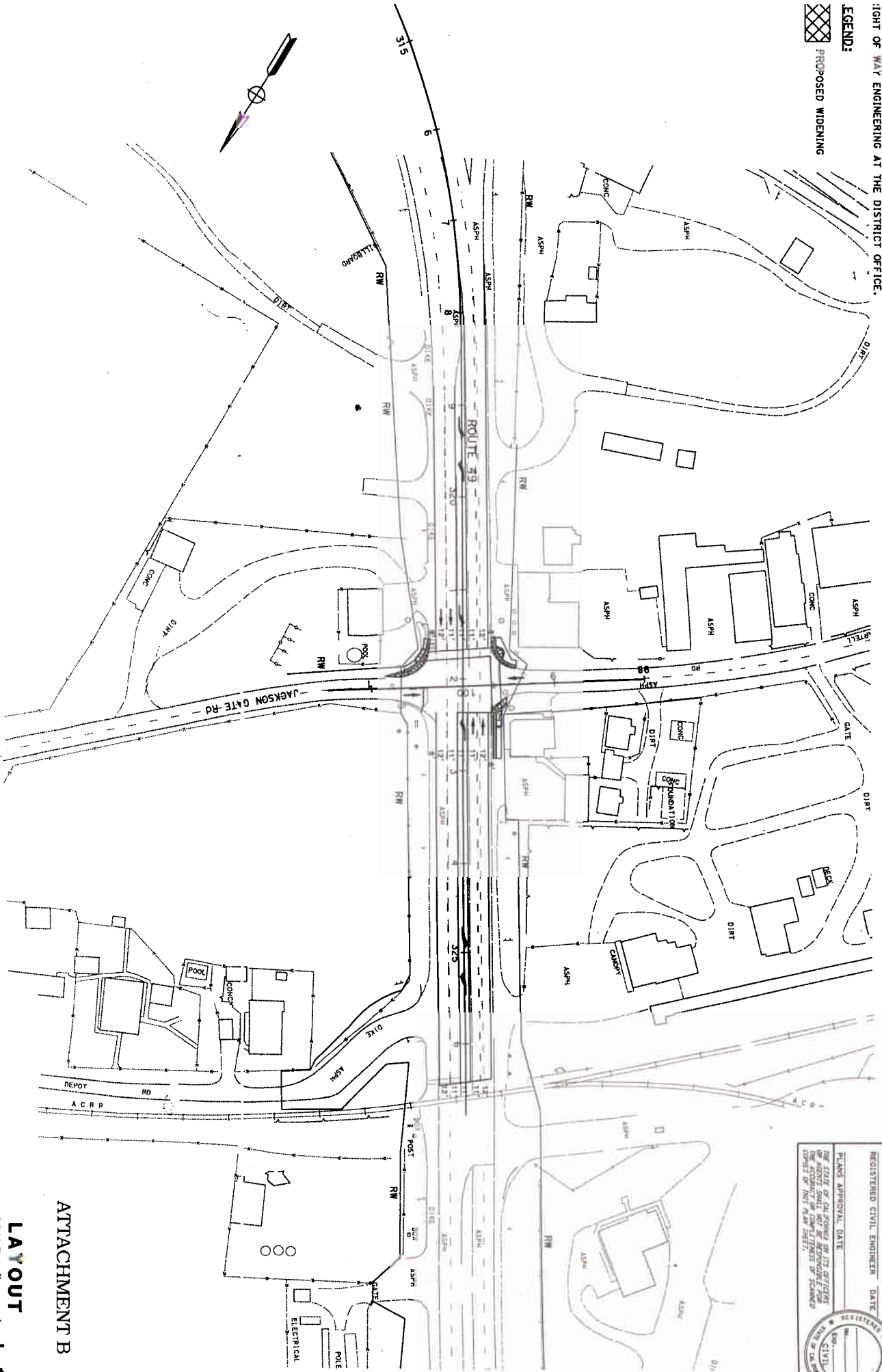
CONTRACT NO. 10-0T140K
PROJECT ID 1000020041K

UNIT 1457 PROJECT NUMBER & PHASE 1000020041K

DATE PLOTTED 23-MAY-2011
TIME PLOTTED 14:25

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:



| | | | | |
|---|-----------|----------|----------------|----------------|
| Sheet 10 of 11 | County 49 | Route 49 | Post Miles 6.1 | Sheet 10 of 11 |
| REGISTERED CIVIL ENGINEER DATE | | | | |
| PLANS APPROVAL DATE | | | | |
| THE STATE OF CALIFORNIA BY ITS DEPARTMENT OF TRANSPORTATION | | | | |
| THE DISTRICT ENGINEER OF THE DISTRICT OF CALIFORNIA | | | | |
| DATE OF THIS PLAN SHEET | | | | |

ATTACHMENT B

LAYOUT
SCALE: 1" = 50' L-1

Memorandum

To: Ajaib Brar
Stockton PPM

Date: 7/28/2011

Attn: Wuthy Seng
Design, B-L
Wuthy Seng
Design, B-L

File: CD 10 EA 0T140K Alt 1
Co AMA RTE 49

DESCRIPTION:

At the intersection of SR 49/Jackson Gate Rd., in Martell

From: Department of Transportation
Division of Right of Way Central Region

Subject: RIGHT OF WAY DATA SHEET

We have completed an estimate of the right of way costs for the above-referenced project based on the Right of Way Data Sheet Request Form dated

The following assumptions and limiting conditions were identified:

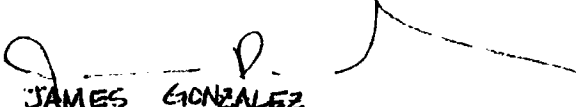
Appraisal

Over head utilities will be relocated. Relocation of the existing utilities will be within the existing Right of Way. Restripe roadway near Railroad Track. No additional R/W or Excess lands required. No additional funding required for environmental mitigation at this time.

Utility

Identified at least three overhead electric/telephone poles, underground communication/water/sewer, six water lids, two communication manhole covers, and one sewer cover within the project limits which will be impacted by the project. At this time, PE is not sure of the depths of underground facilities and the possible involvement; however, potholing is being requested to accurately obtain this information.

Right of Way Lead Time will require a minimum of 6 months after we receive Certified Appraisal Maps and/or Utility Conflict Plans, obtained necessary environmental clearance and applicable freeway agreements have been approved.


JAMES GONZALEZ
Assistant Region Division Chief, Right of Way
(209) 948-7844

EA: 10-0T140K

CO/RTE/PM-PM (Rte 1 and Rte 2) : AMA/49/6.1- & //-

ALT: 1

Request Date:

Revised Date:

Right Of Way Cost Estimate

| | Current Year | Contingency Rate | Right of Way Escalation Rate | Escalated Year 2012 |
|-----------------------------|------------------|------------------|------------------------------|---------------------|
| Acquisition: | \$0 | 25% | 5% | \$0 |
| Mitigation: | \$0 | 25% | 5% | \$0 |
| State Share of Utilities: | \$109,788 | 25% | 5% | \$115,277 |
| Expert Witness: | \$0 | 25% | 5% | \$0 |
| Relocation Assistance: | \$0 | 25% | 5% | \$0 |
| Demolition and Clearance: | \$0 | 25% | 5% | \$0 |
| Title and Escrow: | \$0 | 25% | 5% | \$0 |
| Ad Signs: | \$0 | 25% | 5% | \$0 |
| Total Current Value: | \$109,788 | | | \$115,277 |

If RW Cost Est fields are blank, Costs = \$0

Estimated Construction Contract Work (CCW):

0 R/W LEAD TIME/Mo. 6

Cost Break Down

| | |
|------------|-------|
| Pot Hole | 4,080 |
| Mitigation | |
| Land | 0 |
| Bank | 0 |
| Permit Fee | 0 |

Parcel Data

| | | | |
|--|---|--------------------|---|
| # of Parcel Type X: | 0 | | |
| # of Parcel Type A: less than \$10,000 non-complex | 0 | | |
| # of Parcel Type B: more than \$10,000 non-complex | 0 | | |
| # of Parcel Type C: complex, special valuation | 0 | | |
| # of Parcel Type D: most complex and time consuming | 0 | # of Duals Needed: | 0 |
| Totals: | 0 | Totals: | 0 |

of Excess Parcels: 0

Misc R/W Work

| | |
|-------------------------|---|
| # of RAP Displacements: | 0 |
| # of Clearance/Demos: | 0 |
| # of Const Permits: | 0 |
| # of Condemnations: | 0 |

RR Involvement

| | |
|---|---------|
| Railroad Facilities or Right of Way Affected? | Yes |
| Const/Maint Agreement: | No |
| Service Contract: | No |
| Right of Entry: | No |
| Clauses: | Yes |
| Estimated Lead-time | 1 month |

Utilities

| | |
|---|---|
| U4-1: Owner Expense | 0 |
| U4-2: State Expense, Conventional no Fed Aid | 6 |
| U4-3: State Expense, Freeway no Fed Aid | 0 |
| U4-4: State Expense, both with Fed Aid | 0 |
| U5-7: Utility verification, no relocation/potholing | 0 |
| U5-8: Utility verification, w/ some relocation/potholing | |
| U5-9: Utility verifications, relocation/potholing required | 6 |

EA: 10-07140K ALT: 1

Parcel Area

| | |
|---------------------|---|
| Total R/W Required: | 0 |
| Total Excess Area: | 0 |

General Description of R/W and Excess Lands Required (zoning, use, major improvements, critical or sensitive parcels, etc.):

No additional R/W or Excess lands required.

General Description of Utility Involvement:

Three joint poles will need relocating to accommodate this job. In addition, there may be at least two service poles which may be impacted.

Is there a significant effect on assessed valuation:

No

Were any previously unidentified sites with hazardous waste or material found:

No

Are RAP displacements required:

No

of single family:

0

of multi-family:

0

of business/nonprofit:

0

of farms:

0

Sufficient replacement housing will be available without last resort housing:

0

Are material borrow or disposal sites required:

No

Are there potential relinquishments or abandonments:

No

Are there any existing or potential airspace sites:

No

Are environmental mitigation parcels required:

No

Data for evaluation provided by:

Estimator:

Maryann Jacobs

6/3/2011

Railroad Liaison Agent:

Maria Toles

6/7/2011

Utility Relocation Coordinator:

JENNIFER E. JONES

6/17/2011

I have personally reviewed this Right of Way Sheet and all supporting information. I find this Data Sheet complete and current, subject to the limiting conditions set forth.

Date

ENTERED PMCS

BY: B McCURRY


JAMES GONZALEZ

Assistant Region Division Chief, Right of Way

CATEGORICAL EXEMPTION/ CATEGORICAL EXCLUSION DETERMINATION FORM

10-AMA-49

6.10

10-OT140

Dist.-Co.-Rte. (or Local Agency)

P.W.P.M.

E.A. (State project)

Federal-Aid Project No. (Local project) Proj. No.

PROJECT DESCRIPTION:

(Briefly describe project, purpose, location, limits, right-of-way requirements, and activities involved.)

Enter project description in this box. Use Continuation Sheet, if necessary.
The California Department of Transportation (Caltrans) proposes to improve a 4-way stop to a signalized intersection with lighting. Pedestrian accessibility would be improved in accordance with the applicable ADA criteria. No new right of way will be required for this project and there will be no drainage modifications or culvert work associated with this project.

CEQA COMPLIANCE (for State Projects only)

Based on an examination of this proposal, supporting information, and the following statements (See 14 CCR 15300 et seq.):

- If this project falls within exempt class 3, 4, 5, 6 or 11, it does not impact an environmental resource of hazardous or critical concern where designated, precisely mapped and officially adopted pursuant to law.
- There will not be a significant cumulative effect by this project and successive projects of the same type in the same place, over time.
- There is not a reasonable possibility that the project will have a significant effect on the environment due to unusual circumstances.
- This project does not damage a scenic resource within an officially designated state scenic highway.
- This project is not located on a site included on any list compiled pursuant to Govt. Code § 65062.5 ("Cortese List").
- This project does not cause a substantial adverse change in the significance of a historical resource.

CALTRANS CEQA DETERMINATION (Check one)

☐ Exempt by Statute. (PRC 21060(b); 14 CCR 15260 et seq.)

Based on an examination of this proposal, supporting information, and the above statements, the project is:

☒ Categorically Exempt. Class 1. (PRC 21084; 14 CCR 15300 et seq.)

☐ Categorically Exempt. General Rule exemption. [This project does not fall within an exempt class, but it can be seen with certainty that there is no possibility that the activity may have a significant effect on the environment (CCR 15061(b)(3))]

Print Name: Environmental Branch Chief

Signature: Gail Miller Date: 5-19-11

Print Name: Project Manager/DLA Engineer

Signature: AJAIB BRAR Date: 5-19-11

NEPA COMPLIANCE

In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the State has determined that this project:

- does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is excluded from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and
- has considered unusual circumstances pursuant to 23 CFR 771.117(b)
(<http://www.fhwa.dot.gov/23cfr/771.htm> - sec. 771.117).

In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conformity requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 92.

CALTRANS NEPA DETERMINATION (Check one)

☒ Section 8004: The State has been assigned, and hereby certifies that it has carried out, the responsibility to make this determination pursuant to Chapter 3 of Title 23, United States Code, Section 326 and a Memorandum of Understanding (MOU) dated June 7, 2010, executed between the FHWA and the State. The State has determined that the project is a Categorical Exclusion under:

- ☒ 23 CFR 771.117(c): activity (c)(8)
- ☐ 23 CFR 771.117(d): activity (d)()
- ☐ Activity listed in the MOU between FHWA and the State

☐ Section 8005: Based on an examination of this proposal and supporting information, the State has determined that the project is a CE under Section 8005 of 23 U.S.C. 327.

Print Name: Environmental Branch Chief

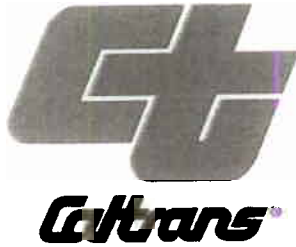
Signature: Gail Miller Date: 5-19-11

Print Name: Project Manager/DLA Engineer

Signature: AJAIB BRAR Date: 5-19-11

Briefly list environmental commitments on continuation sheet. Reference additional information, as appropriate (e.g., air quality studies, documentation of conformity exemption, FHWA conformity determination if Section 8005 project; §106 commitments; §4(f); §7 results; Wetlands Finding; Floodplain Finding; additional studies; and design conditions). Revised June 7, 2010

Short Form - Stormwater Data Report



Dist-County-Route: 10-AMA-49

Post Mile Limits: 6.1

Project Type: Traffic Signals

Project ID (or EA): 1000020041 (10-OT140)

Program Identification: SHOPP

Phase: ☐ PID
☒ PA/ED
☐ PS&E

Regional Water Quality Control Board: Central Valley (5S)

- | | | |
|---|------------------------------|--|
| 1. Is the project required to consider incorporating Treatment BMPs? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 2. Does the project disturb 5 or more acres of soil? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 3. Does the project disturb more than 1 acre of soil and not qualify for the Rainfall Erosivity Waiver? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 4. Does the project potentially create permanent water quality impacts? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| 5. Does the project require a notification of ADL reuse. | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |

If the answer to any of the preceding questions is "Yes", prepare a Long Form - Stormwater Data Report.

Estimate Construction Start Date: 01/14/2013

Construction Completion Date: 12/16/2013


Separate Dewatering Permit (if yes, permit number)

Yes ☐ Permit # _____ No ☒


Erosivity Waiver

Yes ☐ Date: _____ No ☒

This Short Form - Stormwater Data Report has been prepared under the direction of the following Licensed Person. The Licensed Person attests to the technical information contained herein and the data upon which recommendations, conclusions, and decisions are based. Professional Engineer or Landscape Architect stamp required at PS&E.


Wuthy Seng, Registered Professional Engineer 7/18/11 Date

I have reviewed the stormwater quality design issues and find this report to be complete, current and accurate


for Marissa Nishikawa, Central Region NPDES Stormwater Coordinator 7/18/11 Date



Caltrans Stormwater Quality Handbooks, Project Planning and Design Guide, July 2010

District 10 Upgrade

ATTACHMENT E

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-0T140K
Program Code: 20.10.201.010

PROJECT DESCRIPTION:

Limits: Intersection of State Route 49 and Jackson Gate Road in Amador County at PM 6.1.

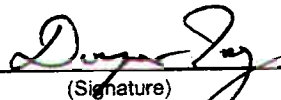
Proposed Improvement:
(Scope of Work) Install Traffic Signals and Pedestrians Curb Ramps.

Alternative: 1

SUMMARY OF PROJECT COST ESTIMATE

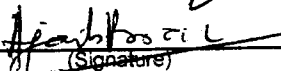
| | | |
|---------------------------------------|--------------------------------------|------------|
| TOTAL ROADWAY ITEMS | Total of Sections 1 - 10 shown above | \$ 450,065 |
| TOTAL STRUCTURES ITEMS | | \$ 0 |
| SUBTOTAL CONSTRUCTION COSTS | | \$ 450,065 |
| TOTAL RIGHT OF WAY ITEMS (Escalated) | | \$ 115,277 |
| TOTAL PROJECT CAPITAL OUTLAY COSTS | | \$ 565,342 |

Reviewed by
District Program Manager:


(Signature)

8/18/11
(Date)

Approved by Project Manager:


(Signature)

8/18/11
(Date)

Phone Number:

(209) 948-7990

Form revised 12/01/09

ATTACHMENT F

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-0T140K
Program Code: 20.10.201.010

I. ROADWAY ITEMS

| <u>Section 1 - Earthwork</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Item Cost</u> | <u>Section Cost</u> |
|---|-----------------|-------------|---------------------------------------|------------------|---------------------|
| Roadway Excavation | 156 | CY | \$45 | \$7,020 | |
| Imported Borrow | | CY | \$0 | \$0 | |
| Clearing & Grubbing | 0 | LS | \$0 | \$0 | |
| Develop Water Supply | | LS | \$0 | \$0 | |
| Top Soil Reapplication | | | \$0 | \$0 | |
| Stepped Slopes and Slope | | | \$0 | \$0 | |
| Rounding (Contour Grading) | | | \$0 | \$0 | |
| | | | \$0 | \$0 | |
| | | | Subtotal Earthwork: | | \$7,020 |
| <u>Section 2 - Pavement Structural Section*</u> | | | | | |
| PCC Pvmnt <u>Depth</u> | 0 | CY | \$0 | \$0 | |
| PCC Pvmnt <u>Depth</u> | 0 | CY | \$0 | \$0 | |
| Hot Mix Asphalt | 30 | Ton | \$180 | \$5,400 | |
| Lean Concrete Base | 0 | CY | \$0 | \$0 | |
| Cement-Treated Base | 0 | CY | \$0 | \$0 | |
| Class 2 Aggregate Base | 40 | CY | \$85 | \$3,400 | |
| Place Hot Mix Asphalt (Misc.) | 300 | SQFT | \$25 | \$7,500 | |
| Tack Coat | 0.5 | Ton | \$6,000 | \$3,000 | |
| Treated Permeable Base | 0 | CY | \$0 | \$0 | |
| Aggregate Subbase | 0 | CY | \$0 | \$0 | |
| Pavement Reinforcing Fabric | 0 | SF | \$0 | \$0 | |
| Edge Drains | 0 | FT | \$0 | \$0 | |
| | | | | \$0 | |
| | | | Subtotal Pavement Structural Section: | | \$19,300 |
| <u>Section 3 - Drainage</u> | | | | | |
| Large Drainage Facilities | 0 | LS | \$0 | \$0 | |
| Drainage Inlet Markers | 4 | LS | \$200 | \$800 | |
| Pumping Plants | 0 | LS | \$0 | \$0 | |
| Project Drainage | 0 | LS | \$0 | \$0 | |
| MM Reinforced Concrete Pipe (Rubber Gasket Joint) | 0 | FT | \$0 | \$0 | |
| Minor Concrete (Misc.) | 583 | CF | \$35 | \$20,405 | |
| Temporary Drainage Inlet Protection | 4 | EA | \$250 | \$1,000 | |
| | | | Subtotal Drainage: | | \$22,205 |

* Reference sketch showing typical pavement structural section elements of the roadway. Include (if available) T.I., R-Value and date when tests were performed.

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-OT140K
Program Code: 20.10.201.010

| <u>Section 4 - Specialty Items</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Item Cost</u> | <u>Section Cost</u> |
|---|-----------------|-------------|-------------------|------------------|---------------------|
| Retaining Walls | 0 | SF | \$0 | \$0 | |
| Barriers and Guardrails | 0 | LF | \$0 | \$0 | |
| Water Pollution Control | 1 | LS | \$1,100 | \$1,100 | |
| Hazardous Waste Investigation and/or Mitigation Work | 0 | LS | \$0 | \$0 | |
| Environmental Compliance | 0 | LS | \$0 | \$0 | |
| Resident Engineer Office Space | 0 | LS | \$0 | \$0 | |
| Progress Schedule (CPM) | 1 | LS | \$2,000 | \$2,000 | |
| Remove Fence | 0 | LF | \$0 | \$0 | |
| Lead Compliance Plan | 1 | LS | \$2,000 | \$2,000 | |
| Remove Concrete | 0 | CF | \$0 | \$0 | |
| Misc. Iron and Steel | 0 | LB | \$0 | \$0 | |
| Chain Link Fence (Type CL-1.8) | 0 | LF | \$0 | \$0 | |
| Prepare Storm Water Pollution Prevention Plan | 1 | LS | \$1,100 | \$1,100 | |
| Subtotal Specialty Items: | | | | | \$6,200 |
| <u>Section 5 - Traffic Items</u> | | | | | |
| Lighting | 0 | LS | \$0 | \$0 | |
| Traffic Delineation Items | 1 | LS | \$15,000 | \$15,000 | |
| Traffic Signals | 1 | LS | \$250,000 | \$250,000 | |
| Overhead Sign Structures | 0 | EA | \$0 | \$0 | |
| Roadside Signs | 5 | EA | \$300 | \$1,500 | |
| Traffic Control Systems | 1 | LS | \$12,000 | \$12,000 | |
| Transportation Management Plan | 1 | LS | \$2,500 | \$2,500 | |
| Temporary Detection System | 0 | LS | \$0 | \$0 | |
| Staging | 0 | LS | \$0 | \$0 | |
| Channelizer (Surface Mounted) | 0 | EA | \$0 | \$0 | |
| Portable Changeable Message Sign | 1 | LS | \$10,000 | \$10,000 | |
| Construction Area Signs | 1 | LS | \$2,500 | \$2,500 | |
| Subtotal Traffic Items: | | | | | \$293,500 |

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-OT140K
Program Code: 20.10.201.010

II. ROADSIDE ITEMS

| <u>Section 6 Planting and Irrigation</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Item Cost</u> | <u>Section Cost</u> |
|---|-----------------|-------------|-------------------|------------------|---------------------|
| Highway Planting | 0 | LS | \$0 | \$0 | |
| Replacement Planting | 0 | LS | \$0 | \$0 | |
| Irrigation Modification | 0 | LS | \$0 | \$0 | |
| Relocate Existing Irrigation | 0 | LS | \$0 | \$0 | |
| Facilities | 0 | LS | \$0 | \$0 | |
| Irrigation Crossovers | 0 | LS | \$0 | \$0 | |
| | | | | \$0 | |
| Subtotal Planting and Irrigation Section: | | | | | \$0 |

| <u>Section 7: Roadside Management and Safety Section</u> | <u>Quantity</u> | <u>Unit</u> | <u>Unit Price</u> | <u>Item Cost</u> | <u>Section Cost</u> |
|--|-----------------|-------------|-------------------|------------------|---------------------|
| Vegetation Control Treatments | 0 | LS | \$0 | \$0 | |
| Gore Area Pavement | 0 | LS | \$0 | \$0 | |
| Pavement beyond the gore area | 0 | LS | \$0 | \$0 | |
| Miscellaneous Paving | 0 | LS | \$0 | \$0 | |
| Erosion Control | 1 | LS | \$5,000 | \$5,000 | |
| Slope Protection | 0 | LS | \$0 | \$0 | |
| Side Slopes/Embankment Slopes | 0 | LS | \$0 | \$0 | |
| Construction Site Management | 1 | LS | \$13,000 | \$13,000 | |
| Relocating roadside facilities/features | 0 | LS | \$0 | \$0 | |
| Temporary Silt Fence | 0 | FT | \$0 | \$0 | |
| Temporary Concrete Washout Facility | 1 | EA | \$1,500 | \$1,500 | |
| Street Sweeping | 1 | LS | \$5,000 | \$5,000 | |
| Subtotal Roadside Management and Safety Section: | | | | | \$24,500 |

TOTAL SECTIONS 1 thru 7 \$372,725

NOTE: Extra lines are provided for items not listed; use additional lines as appropriate.

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-OT140K
Program Code: 20.10.201.010

III. ROADWAY ADDITIONS

Section 8 - Minor Items

| | | | | | <u>Item Cost</u> | <u>Section Cost</u> |
|------------------------------|------------------|---|---------------------------|---|--------------------|---------------------|
| (Subtotal Sections 1 thru 7) | <u>\$372,725</u> | x | <u>0.05</u> (5 to 10%) | = | <u>\$18,636</u> | |
| | | | | | TOTAL Minor Items: | <u>\$18,636</u> |

Section 9 - Roadway Mobilization

| | | | | | | |
|------------------------------|------------------|---|----------------------|---|-----------------------------|-----------------|
| (Subtotal Sections 1 thru 8) | <u>\$391,361</u> | x | <u>0.05</u> (10%) | = | <u>\$19,568</u> | |
| | | | | | TOTAL Roadway Mobilization: | <u>\$19,568</u> |

Section 10 - Supplemental Work & Contingencies

Supplemental Work

| | | | | | | |
|------------------------------|------------------|---|---------------------------|---|-----------------|--|
| (Subtotal Sections 1 thru 8) | <u>\$391,361</u> | x | <u>0.05</u> (5 to 10%) | = | <u>\$19,568</u> | |
|------------------------------|------------------|---|---------------------------|---|-----------------|--|

Contingencies

| | | | | | | |
|------------------------------|------------------|---|----------------------|---|-----------------|--|
| (Subtotal Sections 1 thru 8) | <u>\$391,361</u> | x | <u>0.05</u> (**%) | = | <u>\$19,568</u> | |
|------------------------------|------------------|---|----------------------|---|-----------------|--|

Supplemental Work & Contingencies: \$39,136

TOTAL ROADWAY ADDITIONS Sections 8 thru 10: \$77,340

TOTAL ROADWAY ITEMS: \$450,065

(Subtotal Sections 1 thru 10)

Estimate Prepared
by:

Saravuth Phieu
(Print or Type Name)

Phone: (209) 948-7905 08/18/11
(Date)

Estimate Checked by:

Wenhy Sung
(Print or Type Name)

Phone: (209) 948-7905 08/18/11
(Date)

**Use appropriate percentage per PDPM, Part 3 Chapter 20.

<http://www.dot.ca.gov/hq/opdd/pdpm/pdpmn.htm> - pdpm

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-0T140K
Program Code: 20.10.201.010

II. STRUCTURE ITEMS

Bridge Name
Structure Type
Width (out to out) - (ft)
Span Length - (ft)
Total Area - ft²
Footing Type (pile/spread)
Cost per ft²
(incl. 10 % mobilization
and 20 % contingency)
Total Cost for Structure

| STRUCTURE | | |
|-----------|-------|-------|
| No. 1 | No. 2 | No. 3 |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| \$0 | \$0 | \$0 |

SUBTOTAL STRUCTURES ITEMS \$0
(Sum of Total Cost for Structures)

Railroad Related Costs (Not incl. in RW Est)

| | | | |
|-------|-------|-------|------------|
| _____ | _____ | _____ | <u>\$0</u> |
| _____ | _____ | _____ | <u>\$0</u> |

SUBTOTAL RAILROAD ITEMS \$0

TOTAL STRUCTURES ITEMS \$0

(Sum of Structures items plus Railroad Items)

COMMENTS:

Estimate Prepared
by: _____

(Print or Type Name)

Phone: _____

0/0/00
(Date)

(If appropriate, attach additional pages as backup)

PLANNING COST ESTIMATE



Dist-Co-Rte: 10-Ama-49
PM: PM 6.10
EA: 10-0T140K
Program Code: 20.10.201.010

III. RIGHT OF WAY ITEMS

No. of years for Escalation = [REDACTED]

| | Current Values | Rate (%) | Escalation Factor | Escalated Values |
|--|------------------|----------|-------------------|---------------------------------------|
| A. Acquisition, including excess lands, damages to remainder(s) and Goodwill | \$0 | 5.0 | 1.05 | \$0 |
| B. Utility Relocation (State Share) | \$109,788 | 5.0 | 1.05 | \$115,277 |
| C. Relocation Assistance | \$0 | 5.0 | 1.05 | \$0 |
| D. Clearance/Demolition | \$0 | 7.0 | 1.07 | \$0 |
| E. Title and Escrow Fees | \$0 | 4.0 | 1.04 | \$0 |
| TOTAL RIGHT OF WAY²⁰¹ ITEMS= | \$109,788 | | | \$115,277 (Escalated Value) |

Anticipated Date of Right of Way Certification: 4/13/12
(Date to which Values are Escalated)

F. Construction Contract Work

Brief Description of Work

Right of Way Branch Cost Estimate for Work*

\$0

* This dollar amount is to be included in the Roadway and/or Structures Items of Work, as appropriate. Do not include in Right of Way Items

COMMENTS:

Estimate Prepared by:

James Gonzalez
(Print or Type Name)

Phone: (209) 948-7844 07/20/11
(Date)

(If appropriate, attach additional pages and backup including Right of Way Data Sheet and Environmental Mitigation and Compliance Cost Estimate Sheet).

D-10 TRAFFIC MANAGEMENT: DELIVERY- MEMO

| | | |
|--------------------|--|------------------|
| To: Wuthy Seng | From: Nabeel Burhan D-10 Traffic Management | Date: 12/02/2010 |
| Cc: FILE, D-10 PIO | Phone: (209) 948-7076 | |

M

Re: ID 10 0002 0041

E

Attached is the Approved TMP Checklist, Lane Requirement Charts, and Table Z for the above mentioned project.

S

S

Please include a copy of the TMP Checklist in the RE Book with all supporting Documentation.

A

We request the following:

G

E

- a. *Contractor shall work with RE/Inspector to request the necessary lane closures needed. Requests shall be made the week prior to the actual work. Inspector shall submit closure through the Lane Closure System (LCS) for our approval by Wednesday afternoon of the week prior.*
- b. *All lane closures shall be called in by either the Contractor to the Traffic Management Center (TMC) when the closure begins (10-97), ends (10-98), or is canceled (10-22). The TMC can be reached 24-7 at (209) 948-7556 or 7551.*
- c. *Use proper Traffic Control devices throughout the duration of the project as per Caltrans Standard Specifications.*

Please call if you have any questions regarding the attached information.

D-10 TRANSPORTATION MANAGEMENT PLAN CHECKLIST

District - Project No: 10 0002 0041
 Date Prepared: December 2, 2010
 Prepared By: Nabeel Burhan
 Requested By: Wuthy Seng

Co.-Rte.-P.M. AMA-49-PM 6.1
 Location: In Martell at Jackson Gate Road

Stage of Project (X box) ☒ PID ☐ PSR ☐ PR ☐ PS&E

Description: Install New Traffic Signal

Date Signed
 Date Signed
 Date Signed
 Date Signed

| REQUIRED | RECOMMENDED | NOT APPLICABLE | BEES Item No. | COMMENTS | ITEM COST | REQUIRED IN SPEC. |
|----------|-------------|----------------|---------------|----------|-----------|-------------------|
|----------|-------------|----------------|---------------|----------|-----------|-------------------|

1.0 Public Information Strategies

- 1.1 Brochures and Mailers
- 1.2 Media Releases (& minority media sources)
- 1.3 Paid Advertising
- 1.4 Public Information Center
- 1.5 Public Meetings/Speakers Bureau
- 1.6 Project Telephone Hotline
- 1.7 Internet, E-Mail
- 1.8 Local cable TV and News
- 1.9 Notification to Impacted groups
(i.e. bicycle users, pedestrians with disabilities, others)
- 1.10 Project Web Page
- 1.11 Caltrans Public Information Office
- 1.12 Consultant Public Information Office
- 1.13 Other items

| | | | | | | |
|---|---|---|--------|---|------|--|
| X | | | | RE to hand-deliver to business/residences. | | |
| X | | | | | | |
| | | X | | | | |
| | X | | | See comments below. | | |
| | X | | 066063 | Designer to add to budget if public meeting is added. | | |
| | | X | | | | |
| | | X | | | | |
| | | X | | | | |
| X | | | | Designer to verify impacted groups. | | |
| | X | | | Web page could be linked to local City pg. | | |
| X | | | 066063 | Items 1.1 to 1.11 to be handled by CT PIO. | \$6K | |
| | | X | | | | |
| | | X | | | | |

2.0 Traveler Information Strategies

- 2.1 Changeable Message Signs (permanent)
- 2.2 Changeable Message Signs (portable)
- 2.3 Special Construction Signs
- 2.4 Traveler Information Systems (CHIN/Internet)
- 2.5 Highway Advisory Radio "HAR" (fixed or mobile)
- 2.6 Radar Speed Sign
- 2.7 Traffic Management Team
- 2.8 Revised Transit Schedules/ Maps
- 2.9 Bicycle community information
- 2.10 Other items

| | | | | | | |
|---|---|---|--------|--------------------|-------|---|
| | | X | | | | |
| X | | | 128850 | See comments below | \$18K | X |
| | | X | 120890 | | | |
| | X | | 881985 | As required. | | |
| | | X | 880520 | | | |
| | | X | 066064 | | | |
| | | X | | | | |
| | | X | | | | |
| X | | | | Same as Item 1.9. | | |
| | | X | | | | |

3.0 Incident Management

- 3.1 COZEEP
- 3.2 Freeway Service Patrol (tow truck service patrol)
- 3.3 Traffic Surveillance Stations (loops or CCTV)
- 3.4 Transportation Management Center
- 3.5 Traffic Control Inspector (Caltrans)
- 3.6 Traffic Management Team
- 3.7 On-site Traffic Advisor (contractor)
- 3.8 Other Items

| | | | | | | |
|---|---|---|--------|---|--|--|
| | | X | 066062 | See comments below | | |
| | | X | 066065 | | | |
| X | | | 066076 | Existing to remain &/or provide new stations. | | |
| X | | | | RE to notify for incident & status closure. | | |
| | X | | | | | |
| X | | | | TMC will contact TMT as needed. | | |
| | X | | | | | |
| | | X | | | | |

4.0 Construction Strategies

- 4.1 Delay damage clause
- 4.2 Night work
- 4.3 Weekend Work
- 4.4 Extended Weekend Closures
- 4.5 Planned Lane Closures
- 4.6 Planned Ramp Closures/Connector Closure
- 4.7 Total Facility Closure
- 4.8 Project Phasing
- 4.9 Truck Traffic Restrictions
- 4.10 Reduced Lane Widths
- 4.11 Temporary K-Rail
- 4.12 Temporary Traffic Screens
- 4.13 Reduced Speed Zones
- 4.14 Traffic Control Improvements

| | | | | | | |
|---|---|---|--------|-----------------------------------|--|---|
| | | X | | | | |
| | | X | | | | |
| | | X | | | | |
| | | X | | | | |
| X | | | | Per Lane Closure Charts | | X |
| | | X | | | | |
| | | X | | | | |
| | X | | | As per stage construction if any. | | |
| | | X | | | | |
| | X | | | Per drawings/data sheet if any. | | |
| | | X | 128000 | | | |
| | | X | 128150 | | | |
| | | X | | | | |
| X | | | | As necessary. | | |

4.15 Contingency Plans

[illegible]

5.1 HOV Lanes/Ramps

| | | | | | |
|--|---|--------|--|--|--|
| | X | | | | |
| | X | | | | |
| | X | | | | |
| | X | | | | |
| | X | | | | |
| | X | 086099 | | | |
| | X | 086066 | | | |
| | X | | | | |
| | X | | | | |
| | X | | | | |
| | X | | | | |

6.1 Ramp Closures

[illegible]

7.1 Application of new technology

| | | | | | |
|--|--|---|--|--|--|
| | | X | | | |
| | | X | | | |
| | | X | | | |

Comments:
1.4 Plan progress/completion information should be available at Local Public Works, Chamber of Commerce Offices, and CT Maintenance Offices.

- 1.4 Plan, progress/completion information should be available at Local Public Works, Chamber of Commerce Offices, and C-1 Maintenance Offices.
- 1.9 Impacted groups need to be notified and informed about upcoming construction. During construction, access across job site will be needed.
- 1.11 PIO estimated at \$2k/mo. Or per stage construction or per major milestone.
- 2.2 PCMS Estimate: 1 pair cms (3 mo.) (6k/mo.) = \$18k"
- 3.1 COZEOP Estimate: N/A
- 4.20 Ensure that temporary routes, which are provided around and through construction along pedestrian facilities under Caltrans jurisdiction, are accessible to persons with disabilities when provided.
- 4.21 RE/Inspector shall maintain access to all business & residences at all times.

ved by: 
NABEEL BURHAN

12/2/2010

DATE _____

| Lane Closure Restriction for Designated Legal Holidays and Special Days | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|-----|-----|-----|
| Thu | Fri | Sat | Sun | Mon | Tues | Wed | Thu | Fri | Sat | Sun |
| x | H xx | xx | xx | | | | | | | |
| | SD xx | | | | | | | | | |
| x | xx | H xx | xx | | | | | | | |
| | | SD xx | | | | | | | | |
| | x | xx | H xx | xx | | | | | | |
| | | | SD xx | xxx | | | | | | |
| | x | xx | xx | H xx | xx | | | | | |
| | x | xx | xx | SD xx | xxx | | | | | |
| | | | | x | H xx | xxx | | | | |
| | | | | x | SD xx | | | | | |
| | | | | | x | H xx | xxx | | | |
| | | | | | | SD xx | | | | |
| | | | | | | x | H xx | xx | xx | xx |
| | | | | | | | SD xx | | | |

| | |
|----------|---|
| Legends: | |
| | Refer to lane closure charts |
| x | The full width of the traveled way shall be open for use by public traffic after 6:00 am. |
| xx | The full width of the traveled way shall be open for use by public traffic. |
| xxx | The full width of the traveled way shall be open for use by public traffic until 9:00 am. |
| H | Designated Legal Holiday |
| SD | Special Day |

| Chart No. 1 of 1 Conventional Highway Lane Requirements | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----|---|---|---|---|---|---|---|---|---------------------------|----|----|----|----|----|----|----|----|----|---------|----|----|----|----|----|
| County: AMA | | | | | | | | | | Route/Direction: 49/NB-SB | | | | | | | | | | PM: 6.1 | | | | | |
| Closure Limits: In Martell at Jackson Gate Road intersection | | | | | | | | | | | | | | | | | | | | | | | | | |
| FROM HOUR TO HOUR | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Mondays through Thursdays | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| Fridays | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| Saturdays | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sundays | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Legend:</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> <div>Provide at least one through traffic lane open in direction of travel</div> </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 10px; margin-right: 5px;"></div> <div>Work permitted within project right of way where shoulder or lane closure is not required.</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>REMARKS:</p> <ol style="list-style-type: none"> 1. See Lane Closure Restriction for Designated Legal Holidays and Special Days table in Maintain Traffic of these special provisions for additional closure restrictions. 2. Closures of local roads will require City/County concurrence. | | | | | | | | | | | | | | | | | | | | | | | | | |

Note to Design:

Above window must be re-evaluated or updated if actual construction takes place later than 2013.



12/2/10